

ABSTRACT OF THE DISCLOSURE

A III-V group nitride system semiconductor substrate has
III-V group nitride system single crystal grown on a
5 hetero-substrate. The III-V group nitride system
semiconductor substrate has a flat surface and satisfies the
relationship of $\theta > \alpha$, where θ [deg] is given as an average in
angles of the substrate surface to low index surfaces closest
to the substrate surface measured at a plurality of arbitrary
10 points in plane of the substrate, and a variation range of the
measured angles to θ is represented by $\pm \alpha$ [deg].